

may imagine that the unit array is laid end-to-end in both "x" and "y" dimensions, much as tiles are laid end-to-end in "x" and "y" dimensions to tile a floor.

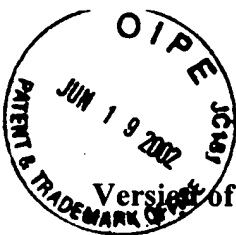
Applicants believe that claims 1 and 9 as amended in the previous amendment satisfy 35 U.S.C. §112, first paragraph. Nevertheless, claims 1 and 9 are amended in this Amendment to better define the invention. No new matter is added. Note that a tiling pattern with a unit array comprising green, red, blue, and IR filters in relative numerical proportions 4:1:1:2 is described on page 4, starting at line 11, and a tiling pattern with a unit array comprising yellow, magenta, cyan, and IR filters in relative numerical proportions 4:1:1:2 is described beginning at the top of page 9.

Applicants acknowledge with appreciation the allowance of claims 2-8 and 10-16, and believe that claims 1 and 9 are also allowable.

Respectfully submitted,

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Version of Amended Specification and Claims with Changes

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In the Specification

The paragraph on page 4, lines 11-20 is amended as follows.

A four color Red-Green-Blue-InfraRed (R-G-B-IR) tiling pattern for a CFA is described in which the ratio of green, red, blue, and IR filters is approximately 4:1:1:2. (It may be approximate due to "edge" effects in the deposition of the CFA.) Fig. 2 illustrates a unit array of a tiling pattern according to an embodiment of the present invention, where R, G, B, and IR, denote [read] red, green, blue, and IR pass filters, respectively. The tiling pattern is provided by repeating the unit array of Fig. 2 in both the row and column directions. The number of repetitions may be non-integral. For convenience, we shall refer to IR as a color, so that the tiling pattern based upon the unit array of Fig. 2 is a four-color mosaic pattern. It is also to be understood that the R, G, and B pass filters may also each pass IR.

In the Claims

1. (Amended Four Times) A color filter array comprising a tiling pattern of pass filters, wherein the tiling pattern has a [contiguous repeating] unit array, the unit array having green, red, blue, and infrared pass filters in relative numerical proportions 4:1:1:2, respectively.

9. (Amended Four Times) A color filter array comprising a tiling pattern of pass filters, wherein the tiling pattern has a [contiguous repeating] unit array, the unit array having yellow, magenta, cyan, and infrared pass filters in relative numerical proportions 4:1:1:2, respectively.